

IN THE CLAIMS:

Kindly amend the claims as follows:

1. (Currently Amended) An injection mould for producing three-dimensional components, comprising:

a system for mould tempering having at least one groove ~~which is arbitrarily extended~~ that extends between two points in an available volume of the mould ~~for around a cavity, the groove~~ conducting a tempering medium ~~which is intended~~ for tempering of modules included in the mould, the groove extending between the two points along a path having a shape designed according to a shape of the cavity and according to locations of one or more components for performing integrated functions in order to increase and decrease a rate of heat transfer from the mould to the tempering medium at different positions along the length of the groove.

each groove being covered along essentially its entire extent by a cover.

2. (Previously Presented) An injection mould as claimed in claim 1, in which the groove along its extent is of a varying width and depth.

3. (Previously Presented) An injection mould as claimed in claim 1, in which a seal is arranged between two modules which between them define said groove.

4. (Previously Presented) An injection mould as claimed claim 1, in which a first module forms a cover for a second module.

5. (Previously Presented) An injection mould as claimed in an claim 1, in which at least one module constitutes a mould half with a cavity formed therein.

6. (Previously Presented) An injection mould as claimed in claim 1, in which the groove is arranged in connection with a hot-runner system arranged in the injection mould.

7. (Previously Presented) An injection mould as claimed claim 1, in which the system for mould tempering is directly or indirectly connected to a circulation system included in an injection moulding assembly.

8. (Currently Amended) A system for mould tempering of injection moulds for producing three-dimensional components, comprising

at least one groove ~~which is arbitrarily extended~~ that extends between two points in an available volume of the mould for conducting a tempering medium which is intended for tempering of modules included in the mould, the groove extending between the two points along a path having a shape designed according to a shape of a mould cavity and according to locations of one or more components for performing integrated functions in order to increase and decrease a rate of heat transfer from the mould to the tempering medium at different positions along the length of the groove.

each groove being covered along essentially its entire length by a cover.

9. (Previously Presented) An injection moulding assembly comprising an injection mould as claimed in claim 1.

10. (Previously Presented) An injection mould as claimed in claim 2, in which a seal is arranged between two modules which between them define said groove.

11. (Previously Presented) An injection mould as claimed claim 2, in which a first module forms a cover for a second module.

12. (Previously Presented) An injection mould as claimed claim 3, in which a first module forms a cover for a second module.

13. (Previously Presented) An injection mould as claimed in an claim 2, in which at least one module constitutes a mould half with a cavity formed therein.

14. (Previously Presented) An injection mould as claimed in an claim 3, in which at least one module constitutes a mould half with a cavity formed therein.

15. (Previously Presented) An injection mould as claimed in claim 2, in which the groove is arranged in connection with a hot-runner system arranged in the injection mould.

16. (Previously Presented) An injection mould as claimed in claim 3, in which the groove is arranged in connection with a hot-runner system arranged in the injection mould.

17. (Previously Presented) An injection mould as claimed claim 2, in which the system for mould tempering is directly or indirectly connected to a circulation system included in an injection moulding assembly.

18. (Previously Presented) An injection mould as claimed claim 3, in which the system for mould tempering is directly or indirectly connected to a circulation system included in an injection moulding assembly.

19. (Previously Presented) An injection moulding assembly comprising an injection mould as claimed in claim 2.

20. (Previously Presented) An injection moulding assembly comprising an injection mould as claimed in claim 3.